

# **METHOD AND APPARATUS FOR RE-ENCRYPTING DATA IN A TRANSACTION-BASED SECURE STORAGE SYSTEM**

## **Abstract**

A method for re-encrypting encrypted data in a secure storage file system, including obtaining selected data to re-encrypt from the secure storage file system using a user data access record and the encrypted data, decrypting the selected data using a symmetric key, re-encrypting the selected data using a new symmetric key to obtain new encrypted data, encrypting the new symmetric key using a public key to obtain a new encrypted symmetric key, storing the new encrypted data and the new encrypted symmetric key if the public key is associated with a file system user having read permission, and storing an encrypted hash data if the file system user has write permission.

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